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	R3P10	1	HSDAVFTENYTKLRKQLAAKKYLNDLLNGGT	31 13
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	R3P19	1	HSDAVFTENYTKLRKQLAAKKYLNDLKKGGTSWCEPGWCR	39 18
	R3P22	1	HSDAVFTDNYTRLRKQLAAKKYLNSIKKGGT	31 21
10	R3P24	1	HSDAVFTDNYTRLRKQLAAKKYLNDIKNGGT	31 22
	R3P25	1	HSDAVFTDNYTRLRKQLAVKKYLNSIKKGGT	31 23
	R3P26	1	HSDAVFTDNYTRLRKQMAAKKYLNSIKKGGT	31 24
	R3P29	1	HSDAVFTDNYTRLRKQLAVKKYLNDIKNGGT	31 25
	R3P30	1	HSDAVFTDNYTRLRKQLAAKKYLNSIKNGGT	31 26
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	rR3P42	1	HSDAVFTDNYTRLRKQMAVKKYLNSIKN	28 34
	rR3P43	1	HSDAVFTDNYTRLRKQMAVKKYLNSILK	28 35
	rR3P44	1	HSDAVFTDNYTELRKQMAVKKYLNSILN	28 36
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	rR3P51*	1	HSDAVFTDNYTRLRKQMAAKKYLNSIKK	28 43
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	rR3P55*	1	HSDAVFTDNYTRLRKQMAAKKYLNSIKNKRY	31 47
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	R3P27	1	HSDAVFTDNYTRLRKQLAAKKYLNDILNGGT	31 64
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50	PAC4	1	HSDKIFTDSYSRYRKQMAVKKYLA AVL-NH ₂	27	179
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	PAC8	1	HSDGIFTKSYSRYRKQMAVKKYLA AVL-NH ₂	27	183
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	PAC13	1	HSDGIFTDSYSRKRKQMAVKKYLA AVL-NH ₂	27	188
	PAC14	1	HSDGIFTDSYSRYEKQMAVKKYLA AVL-NH ₂	27	189
	PAC15	1	HSDGIFTDSYSRYREQMAVKKYLA AVL-NH ₂	27	190
60	PAC16	1	HSDGIFTDSYSRYRKKMAVKKYLA AVL-NH ₂	27	191

	PAC17	1	DSGIFTDSYSRYRKQKAVKKYLA AVL-NH ₂	27	192
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5	PAC21	1	HSDGIFTDSYSRYRKQMAVKEYLA AVL-NH ₂	27	196
	PAC22	1	HSDGIFTDSYSRYRKQMAVKKKLA AVL-NH ₂	27	197
	PAC23	1	HSDGIFTDSYSRYRKQMAVKKKYA AVL-NH ₂	27	198
	PAC24	1	HSDGIFTDSYSRYRKQMAVKKYLK AVL-NH ₂	27	199
	PAC25	1	HSDGIFTDSYSRYRKQMAVKKYLAK VL-NH ₂	27	200
10	PAC26	1	HSDGIFTDSYSRYRKQMAVKKYLA AKL-NH ₂	27	201
	PAC27	1	HSDGIFTDSYSRYRKQMAVKKYLA AVK-NH ₂	27	202

Figure 1

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Fig. 2

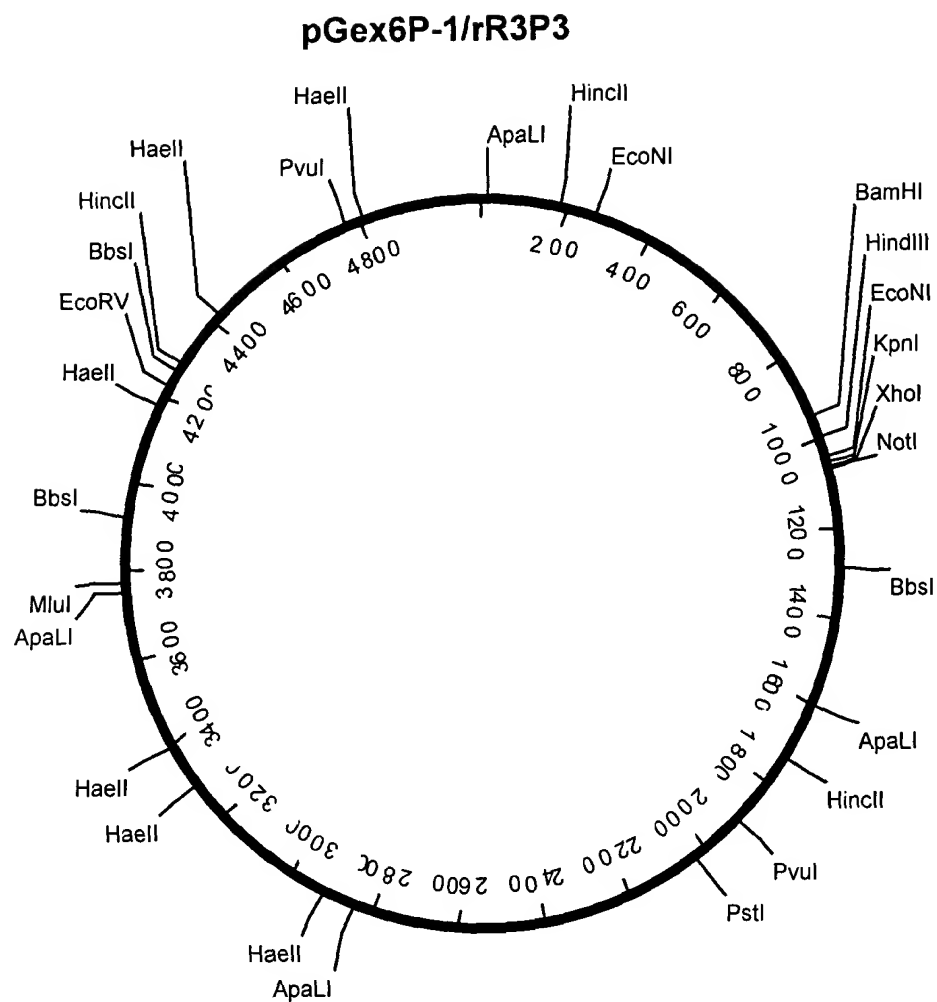


Figure 3

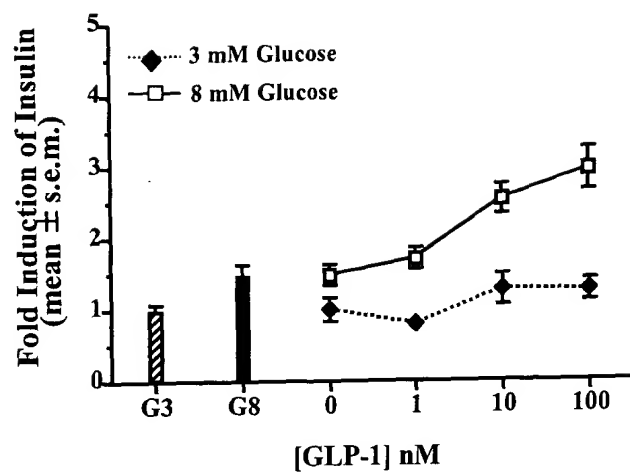


Figure 4A

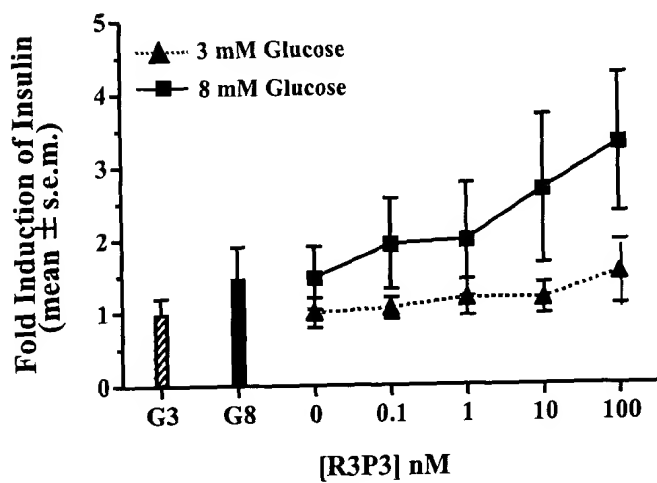


Figure 4B

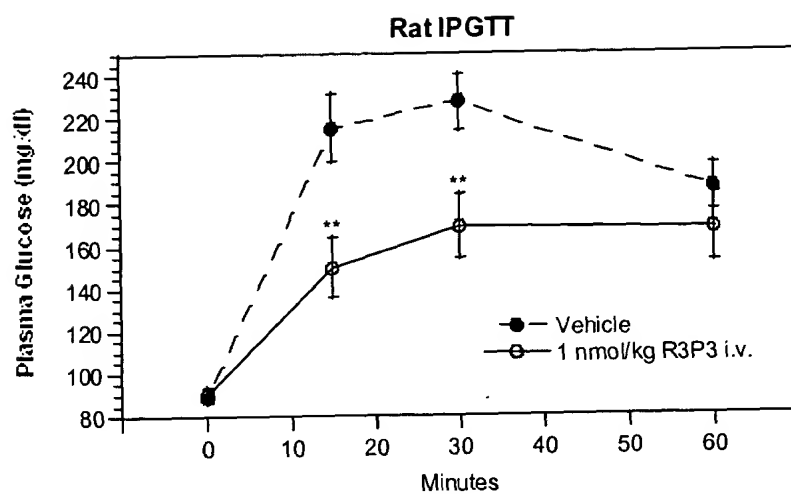


Fig. 5

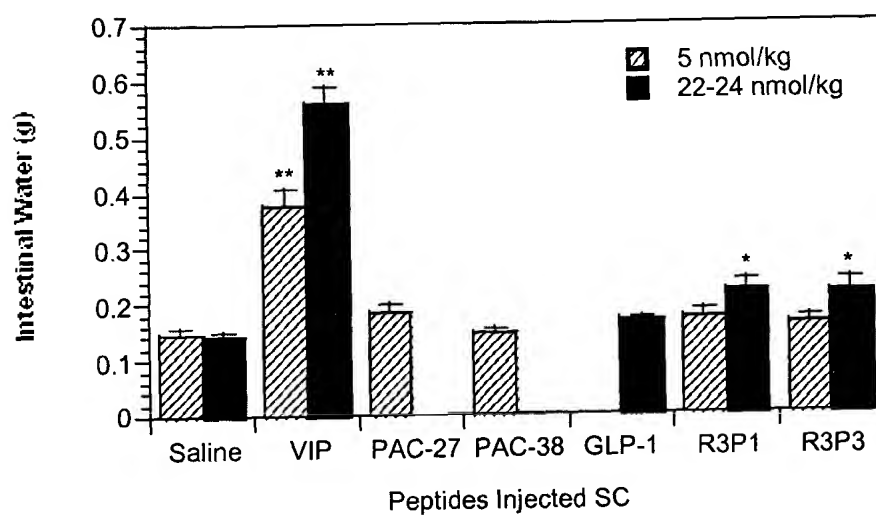


Fig. 6

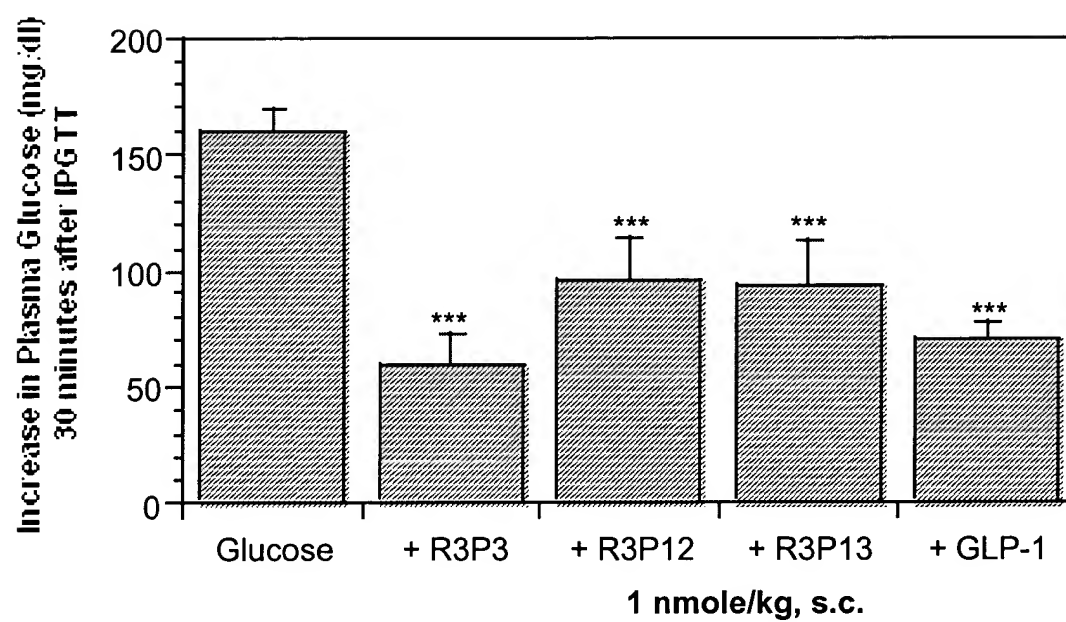


Fig. 7

5 rPACAP 27 (SEQ ID NO: 203)
 GGATCCATCGAAGGTCGTCACTCCGATGGTATCTTCACCGACTCCTACTCGAGGTACC
 GCAAGCAGATGGCTGTAAAGAAATATCTGGCTGCAGTTCTGTAATGACTCGAG

10 rPACAP 38 (SEQ ID NO: 54)
 GGATCCATCGAAGGTCGTCACTCCGATGGTATCTTCACCGACTCCTACTCTCGGTACCG
 CAAGCAGATGGCTGTAAAGAAATATCTGGCTGCAGTCCTAGGCAAACGTTACAAGCAAC
 GCGTTAAAAACAAGTAATGACTCGAG

15 rVIP (SEQ ID NO: 55)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTAAAGAAATACCTGAATTCATCCTGAACTAATGACTCGAG

20 rR3P3 (SEQ ID NO: 56)
 GGATCCATCGAAGGTCGTCACTCCGATGCTGTTTTACCGAAAACCTACACCAAGCTTCG
 TAAACAGCTGGCAGCTAAGAAATACCTCAACGACCTGAAAAGGGCGGTACCTAATGAC
 TCGAG

25 rR3P9 (SEQ ID NO: 204)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTAAAGAAATACCTGAATTCATCAAGAAAGGCGGTACCTAATGA
 CTCGAG

30 rR3P12 (SEQ ID NO: 205)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGCTGGCTGCTAAGAAATACCTGAACGACATCAAGAAAGGTGGCACCTAATGA
 CTCGAG

35 rR3P33 (SEQ ID NO: 206)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGCTGGCTGCTAAGAAATACCTGAACGACATCAAGAAATAATGAC

40 rR3P41 (SEQ ID NO: 207)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTAAAGAAATACCTGAATTCATCAAGAAATAATGACTCGAG

45 rR3P42 (SEQ ID NO: 208)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTAAAGAAATACCTGAATTCATCAAGAACTAATGACTCGAG

50 rR3P43 (SEQ ID NO: 209)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTAAAGAAATACCTGAATTCATCCTGAAATAATGACTCGAG

55 rR3P44 (SEQ ID NO: 210)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGGAACCTGC
 GTAAACAGATGGCTGTAAAGAAATACCTGAATTCATCCTGAACTAATGACTCGAG

rR3P45 (SEQ ID NO: 211)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTGAACAGATGGCTGTAAAGAAATACCTGAATTCATCCTGAACTAATGACTCGAG

rR3P46 (SEQ ID NO: 212)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGCTGGCTGTAAAGAAATACCTGAATTCATCCTGAACTAATGACTCGAG

5 rR3P47 (SEQ ID NO: 213)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCCTGAACTAATGACTCGAG

10 rR3P48 (SEQ ID NO: 214)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTTAAGAAATACCTGAATGACATCCTGAACTAATGACTCGAG

15 rR3P49 (SEQ ID NO: 215)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAACTAATGACTCGAG

20 rR3P50 (SEQ ID NO: 216)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCCTGAAATAATGACTCGAG

25 rR3P51 (SEQ ID NO: 217)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAAATAATGACTCGAG

30 rR3P52 (SEQ ID NO: 218)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAAAAAGCGTTACTAATGA
 CTCGAG

35 rR3P53 (SEQ ID NO: 219)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAAAAAGCGTTAATGACTC
 GAG

40 rR3P54 (SEQ ID NO: 220)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAAAAAGTAATGACTCGAG

45 rR3P55 (SEQ ID NO: 221)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAACAAAGCGTTACTAATGA
 CTCGAG

50 rR3P56 (SEQ ID NO: 222)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTTAAGAAATACCTGAATTCCATCAAGAAAAAGCGTTACTAATGAC
 TCGAG

55 rR3P57 (SEQ ID NO: 223)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTTAAGAAATACCTGAATTCCATCAAGAAAAAGCGTTAATGACTC
 GAG

60 rR3P58 (SEQ ID NO: 224)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTTAAGAAATACCTGAATTCCATCAAGAAAAAGTAATGACTCGAG

65 rR3P59 (SEQ ID NO: 225)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGTTAAGAAATACCTGAATTCCATCAAGAACAAAGCGTTACTAATGAC
 TCGAG

rR3P60 (SEQ ID NO: 226)

GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGGTTGCTGCAAAGAAATACCTGCAGTCCATCAAGAAATAATGACTCGAG

5 rR3P61 (SEQ ID NO: 227)

GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATCGCTGCAAAGAAATACCTGCAGACTATCAAGAAATAATGACTCGAG

rR3P62 (SEQ ID NO: 228)

10 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGGTTGCTGCAAAGAAATACCTGAATTCCATCAAGAAATAATGACTCGAG

rR3P65 (SEQ ID NO: 229)

15 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAA
TTC

rR3P71 (SEQ ID NO: 230)

20 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACCAGTACACGCGCTTAA
GAAACAGATGGCTGCAAAGAAATACCTGAATTCCATCAAGAACAAGCGTTACTAATGA
CTCGAG

rR3P98 (SEQ ID NO: 231)

25 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTGACAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
TC

rR3P99 (SEQ ID NO: 232)

30 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTGAGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
TC

rR3P100 (SEQ ID NO: 233)

35 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTTTCAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAATT
C

rR3P101 (SEQ ID NO: 234)

40 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTGGCAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
TC

rR3P102 (SEQ ID NO: 235)

45 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTCACAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
TC

rR3P103 (SEQ ID NO: 236)

50 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTATCAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAATT
C

rR3P104 (SEQ ID NO: 237)

55 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
AAAACAGATGGCTAAAAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAATT
C

rR3P105 (SEQ ID NO: 238)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTCTGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

5

rR3P106 (SEQ ID NO: 239)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTATGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

10

rR3P107 (SEQ ID NO: 240)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTAACAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

15

rR3P108 (SEQ ID NO: 241)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTCCGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

20

rR3P109 (SEQ ID NO: 242)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTCAGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

25

rR3P110 (SEQ ID NO: 243)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTCGCAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

30

rR3P111 (SEQ ID NO: 244)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTTCCAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

35

rR3P112 (SEQ ID NO: 245)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTACCAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

40

rR3P113 (SEQ ID NO: 246)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTGTGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

45

rR3P114 (SEQ ID NO: 247)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTTGGAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAAT
 TC

50

rR3P115 (SEQ ID NO: 248)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGCTTAAG
 AAAACAGATGGCTTACAAGAAATACCTGAACTCCATCAAGAACAAGCGTTAATGAGAATT
 C

55

5 rR3P116 (SEQ ID NO: 249)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCGCGAACAAGCGTTAATGAGAA
 TTC

10 rR3P118 (SEQ ID NO: 250)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCGACAACAAGCGTTAATGAGAA
 TTC

15 rR3P119 (SEQ ID NO: 251)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCGAGAACAAGCGTTAATGAGAA
 TTC

20 rR3P120 (SEQ ID NO: 252)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCTTCAACAAGCGTTAATGAGAA
 TTC

25 rR3P121 (SEQ ID NO: 253)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCGGCAACAAGCGTTAA:GAGAA
 TTC

30 rR3P122 (SEQ ID NO: 254)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCGGCAACAAGCGTTAATGAGAA
 TTC

35 rR3P123 (SEQ ID NO: 255)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCATCAACAAGCGTTAATGAGAA
 TTC

40 rR3P124 (SEQ ID NO: 256)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCATGAACAAGCGTTAATGAGAA
 TTC

45 rR3P125 (SEQ ID NO: 257)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAACAACAAGCGTTAATGAGAA
 TTC

50 rR3P126 (SEQ ID NO: 258)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCCCGAACAAGCGTTAATGAGAA
 TTC

55 rR3P127 (SEQ ID NO: 259)
 GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCCAGAACAAGCGTTAATGAGAA
 TTC

5 rR3P128 (SEQ ID NO: 260)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAGGAACAAGCGTTAATGAGAA
 TTC

10 rR3P129 (SEQ ID NO: 261)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAGCAACAAGCGTTAATGAGAA
 TTC

15 rR3P130 (SEQ ID NO: 262)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAGCAACAAGCGTTAATGAGAA
 TTC

20 rR3P131 (SEQ ID NO: 263)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCGTGAACAAGCGTTAATGAGAA
 TTC

25 rR3P132 (SEQ ID NO: 264)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCTGGAACAAGCGTTAATGAGAA
 TTC

30 rR3P133 (SEQ ID NO: 265)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCTACAACAAGCGTTAATGAGAA
 TTC

35 rR3P134 (SEQ ID NO: 266)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACGCGCGTTAATGAGAA
 TTC

40 rR3P136 (SEQ ID NO: 267)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACGACCGTTAATGAGAA
 TTC

45 rR3P137 (SEQ ID NO: 268)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACGAACGTTAATGAGAA
 TTC

50 rR3P138 (SEQ ID NO: 269)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACTTCCGTTAATGAGAA
 TTC

55 rR3P139 (SEQ ID NO: 270)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACGGCCGTTAATGAGAA
 TTC

5 rR3P140 (SEQ ID NO: 271)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACCACCGTTAATGAGAA
TTC

10 rR3P141 (SEQ ID NO: 272)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACATCCGTTAATGAGAA
TTC

15 rR3P142 (SEQ ID NO: 273)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACCCTGCGTTAATGAGAA
TTC

20 rR3P143 (SEQ ID NO: 274)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACATGCGTTAATGAGAA
TTC

25 rR3P144 (SEQ ID NO: 275)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAACCGTTAATGAGAA
TTC

30 rR3P145 (SEQ ID NO: 276)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACCCGCGTTAATGAGAA
TTC

35 rR3P146 (SEQ ID NO: 277)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACCAGCGTTAATGAGAA
TTC

40 rR3P147 (SEQ ID NO: 278)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACC GCCGTTAATGAGAA
TTC

45 rR3P148 (SEQ ID NO: 279)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAGCCGTTAATGAGAA
TTC

50 rR3P149 (SEQ ID NO: 280)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACACCCGTTAATGAGAA
TTC

55 rR3P150 (SEQ ID NO: 281)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACGTGCGTTAATGAGAA
TTC

5 rR3P151 (SEQ ID NO: 282)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACTGGCGTTAATGAGAA
TTC

10 rR3P152 (SEQ ID NO: 283)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACTACCGTTAATGAGAA
TTC

15 rR3P153 (SEQ ID NO: 284)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGGCGTAATGAGAA
TTC

20 rR3P155 (SEQ ID NO: 285)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGGACTAATGAGAA
TTC

25 rR3P156 (SEQ ID NO: 286)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGGAGTAATGAGAA
TTC

30 rR3P157 (SEQ ID NO: 287)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGTTCTAATGAGAA
TTC

35 rR3P158 (SEQ ID NO: 288)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGGGCTAATGAGAA
TTC

40 rR3P159 (SEQ ID NO: 289)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGCACTAATGAGAA
TTC

45 rR3P160 (SEQ ID NO: 290)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGATCTAATGAGAA
TTC

50 rR3P161 (SEQ ID NO: 291)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGTAATGAGAA
TTC

55 rR3P162 (SEQ ID NO: 292)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAAGCTGTAATGAGAA
TTC

5 rR3P163 (SEQ ID NO: 293)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGATGTAATGAGAA
TTC

10 rR3P164 (SEQ ID NO: 294)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGAACTAATGAGAA
TTC

15 rR3P165 (SEQ ID NO: 295)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGCCGTAATGAGAA
TTC

20 rR3P166 (SEQ ID NO: 296)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGCAGTAATGAGAA
TTC

25 rR3P167 (SEQ ID NO: 297)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGAGCTAATGAGAA
TTC

30 rR3P168 (SEQ ID NO: 298)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGACCTAATGAGAA
TTC

35 rR3P169 (SEQ ID NO: 299)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGGTGTAATGAGAA
TTC

40 rR3P170 (SEQ ID NO: 300)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGTGGTAATGAGAA
TTC

45 rR3P171 (SEQ ID NO: 301)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACAAGTACTAATGAGAA
TTC

50 rR3P174 (SEQ ID NO: 302)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCAAGAACCCTATCTAATGAGAA
TTC

55 rR3P175 (SEQ ID NO: 303)
GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGGCAAAGAAATACCTGAACTCCATCAAGAACCCTATCTAATGAGAA
TTC

rR3P176 (SEQ ID NO: 304)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTaaaAAGAAATACCTGAACTCCATCAAGAACCGTATCTAATGAGAAT
 TC

5

rR3P177 (SEQ ID NO: 305)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTcgcAAGAAATACCTGAACTCCATCAAGAACCGTATCTAATGAGAAT
 TC

10

rR3P178 (SEQ ID NO: 306)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTtccAAGAAATACCTGAACTCCATCAAGAACCGTATCTAATGAGAATT
 C

15

rR3P179 (SEQ ID NO: 307)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCccgAACCGTATCTAATGAGAAT
 TC

20

rR3P180 (SEQ ID NO: 308)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTggcAAGAAATACCTGAACTCCATCccgAACCGTATCTAATGAGAATT
 C

25

rR3P181 (SEQ ID NO: 309)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTaaaAAGAAATACCTGAACTCCATCccgAACCGTATCTAATGAGAATT
 C

30

rR3P182 (SEQ ID NO: 310)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTcgcAAGAAATACCTGAACTCCATCccgAACCGTATCTAATGAGAATT
 C

35

rR3P183 (SEQ ID NO: 311)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTtccAAGAAATACCTGAACTCCATCccgAACCGTATCTAATGAGAATT
 C

40

rR3P184 (SEQ ID NO: 312)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCcagAACCGTATCTAATGAGAAT
 TC

45

rR3P185 (SEQ ID NO: 313)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTggcAAGAAATACCTGAACTCCATCcagAACCGTATCTAATGAGAATT
 C

50

rR3P186 (SEQ ID NO: 314)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTaaaAAGAAATACCTGAACTCCATCcagAACCGTATCTAATGAGAATT
 C

55

rR3P187 (SEQ ID NO: 315)
 GGATCCATCGAAGGTCGTCACCTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
 GTAAACAGATGGCTcgcAAGAAATACCTGAACTCCATCcagAACCGTATCTAATGAGAATT
 C

60

0067177.092700

rR3P188 (SEQ ID NO: 316)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTtccAAGAAATACCTGAACTCCATCcgAACCGTATCTAATGAGAATT
C

5

rR3P189 (SEQ ID NO: 317)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTGCAAAGAAATACCTGAACTCCATCcgTAACCGTATCTAATGAGAATT
C

10

rR3P190 (SEQ ID NO: 318)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTggcAAGAAATACCTGAACTCCATCcgTAACCGTATCTAATGAGAATT
C

15

rR3P191 (SEQ ID NO: 319)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTaaaAAGAAATACCTGAACTCCATCcgTAACCGTATCTAATGAGAATT
C

20

rR3P192 (SEQ ID NO: 320)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTcgcAAGAAATACCTGAACTCCATCcgTAACCGTATCTAATGAGAATT
C

25

rR3P193 (SEQ ID NO: 321)

GGATCCATCGAAGGTCGTCACTCCGACGCTGTTTTACCGACAACCTACACGCGTCTGC
GTAAACAGATGGCTtccAAGAAATACCTGAACTCCATCcgTAACCGTATCTAATGAGAATT
C

30

Figure 8

35

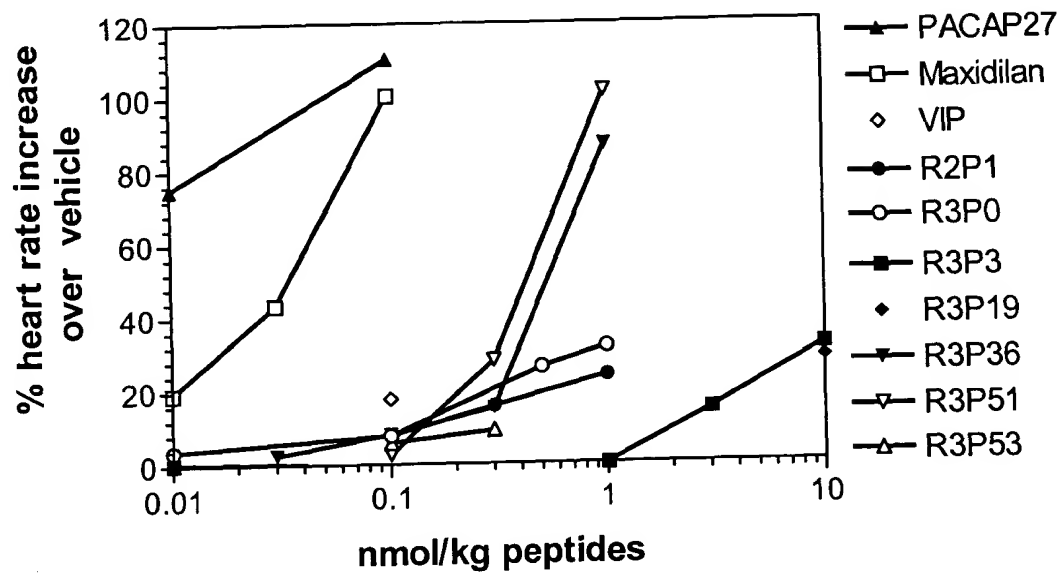


Figure 9

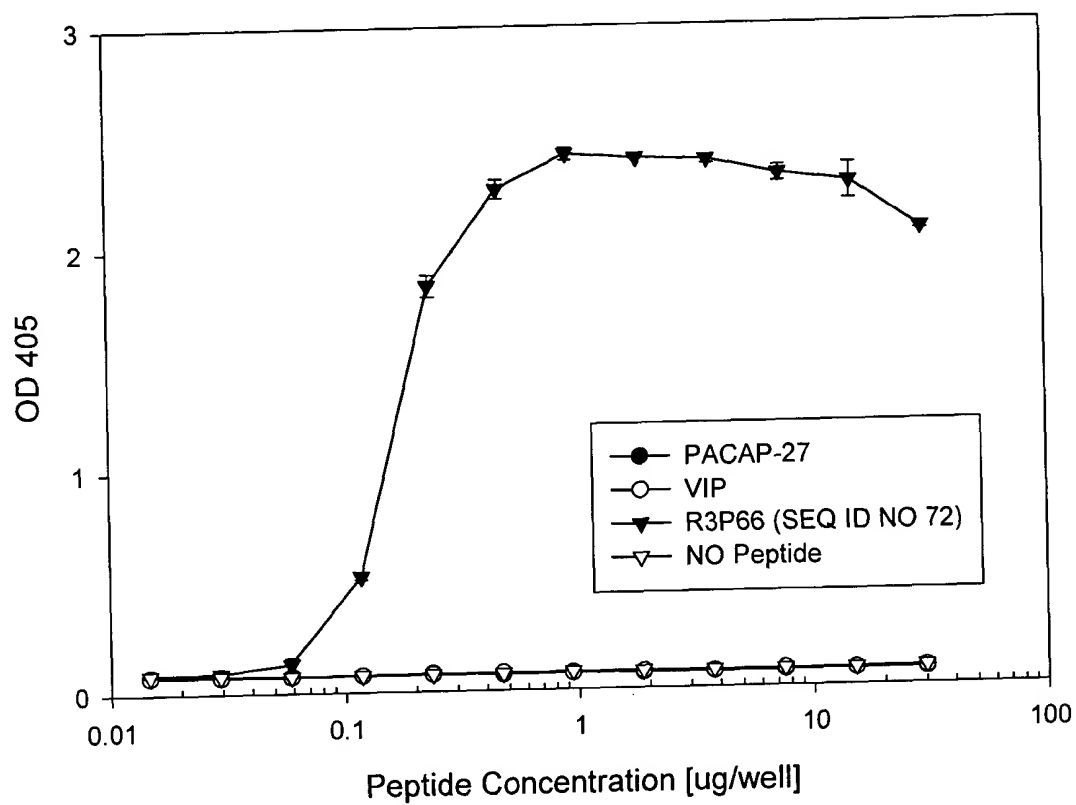


Fig.